

SediCon Dredge for Las Lajas, Chile

A powerful SediCon Dredge was successfully installed to remove sediments in Las Lajas reservoir



SediCon Dredge



Pipeline in Las Lajas reservoir

Project Description:

Las Lajas is a 267 MW project. It has an underground powerhouse equipped with two Pelton type turbines. The net head of the project is 486 m, and the discharge is 65 m³/s. Las Lajas use water discharged from Alfalfal II along with Colorado River and the Aucayes stream. Las Lajas belongs to Alto Maipo Project.

Location:

San Jose del Maipo district Región Metropolitana, Chile
Approximate location: [33°34'23.0\"S 70°24'03.8\"W](https://www.google.com/maps/place/33°34'23.0\)

Sediment Challenge:

Las Lajas reservoir will receive a large amount of sediments due to its location in the Maipo river watershed, downstream of Alfalfal II discharge. This reservoir must have a low sediment volume, due to its function as a forebay.

Solution:

SediCon has delivered a hydro suction dredge with sediment removal capacity well above 200 m³ sediments per hour. Sediments up to 250mm diameter and debris approximately 500mm long and cohesive sediments up to 25 kPa undrained shear strength will be removed. The operator on the raft can control outlet valve discharge in real time.

Implementation:

The SediCon Desander dredges was installed in 2021 and will start operation during 2022.

SediCon is the leading supplier of sediment handling worldwide and provides reliable solutions with low water consumption and uninterrupted power production.